INTRA-DISCIPLINARY PROJECT-II REPORT

Hostel Management System

Submitted

by

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CERTIFICATE

This is to certify that the Intra-Disciplinary Project-II entitled **Hostel Management System** that is being submitted by **Suraj Patel (201FA04431), Dipu Kumar (201FA04432), Nitish Kumar (201FA04433)** for partial fulfilment of Intra-Disciplinary Project-II is a bonafide work carried out under the supervision of ***Dr B. Samatha, Assistant Professor*** from Department of Computer Science & Engineering.

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DECLARATION

We hereby declare that the Intra-Disciplinary Project-II entitled **Hostel Management System** is being submitted by **Suraj Patel (201FA04431), Dipu Kumar (201FA04432), Nitish Kumar (201FA04433)** in partial fulfilment of Intra-Disciplinary Projects-II course work. This is our original work, and this project has not formed the basis for the award of any degree. We have worked under the supervision of ***Dr B. Samatha, Assistant Professor*** from Department of Computer Science & Engineering.

By

Suraj Patel

Dipu Kumar

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Date:

ABSTRACT

As the name specifies “HOSTEL MANAGEMENT SYSTEM” is a software developed for managing various activities in the hostel. For the past few years the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software’s are not usually used in this context. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually. Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system Which is more user friendly and more GUI oriented.

TABLE OF CONTENTS

1. INTRODUCTION

1.1 INTRODUCTION

In our current era of automated systems with it being either software or hardware, it's not advisable to be using manual system. Hostels without a management system are usually done manually. Registration forms verification to other data saving processes are done manually and most at times, they are written on paper. Thus a lot of repetitions can be avoided with an automated system. The drawbacks of existing systems lead to the design of a computerised system that will help reduce a lot of manual inputs. With this system in place, we can improve the efficiency of the system, thus overcome the drawbacks of the existing manual system.This system is designed in favour of the hostel management which helps them to save the records of the students about their rooms and other things. It helps them from the manual work from which it is very difficult to find the record of the students and the mess bills of the students, and the information of about the those ones who had left the hostel years before.

1.2 OBJECTIVE

The main objective of the Hostel Management System is to manage the details of Rent, Allotees, Hostel, Rooms, Payments. It manages all the information about Rent, Beds, Payments, Rent. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Rent, Allotees, Beds, Hostel. It tracks all the details about the Hostel, Rooms, Payments.

1.3 DESCRIPTION

The existing system is manual based and need lot of efforts and consume enough time. In the existing system we can apply for the hostels online but the allotment processes are done manually. It may lead to corruptions in the allocation process as well as hostel fee calculation. The existing system does not deals with mess calculation and complaint registration.

2. SYSTEM ENVIRONMENT

SOFTWARE REQUIREMENT:

Language:- Java, JSP, Servlet, JDBC, HTML, CSS, JavaScript

Operating System:- Window-7/8/9/10/11

Software:- NetBeans IDE

Database:- MySQL

HARDWARE REQUIREMENT:

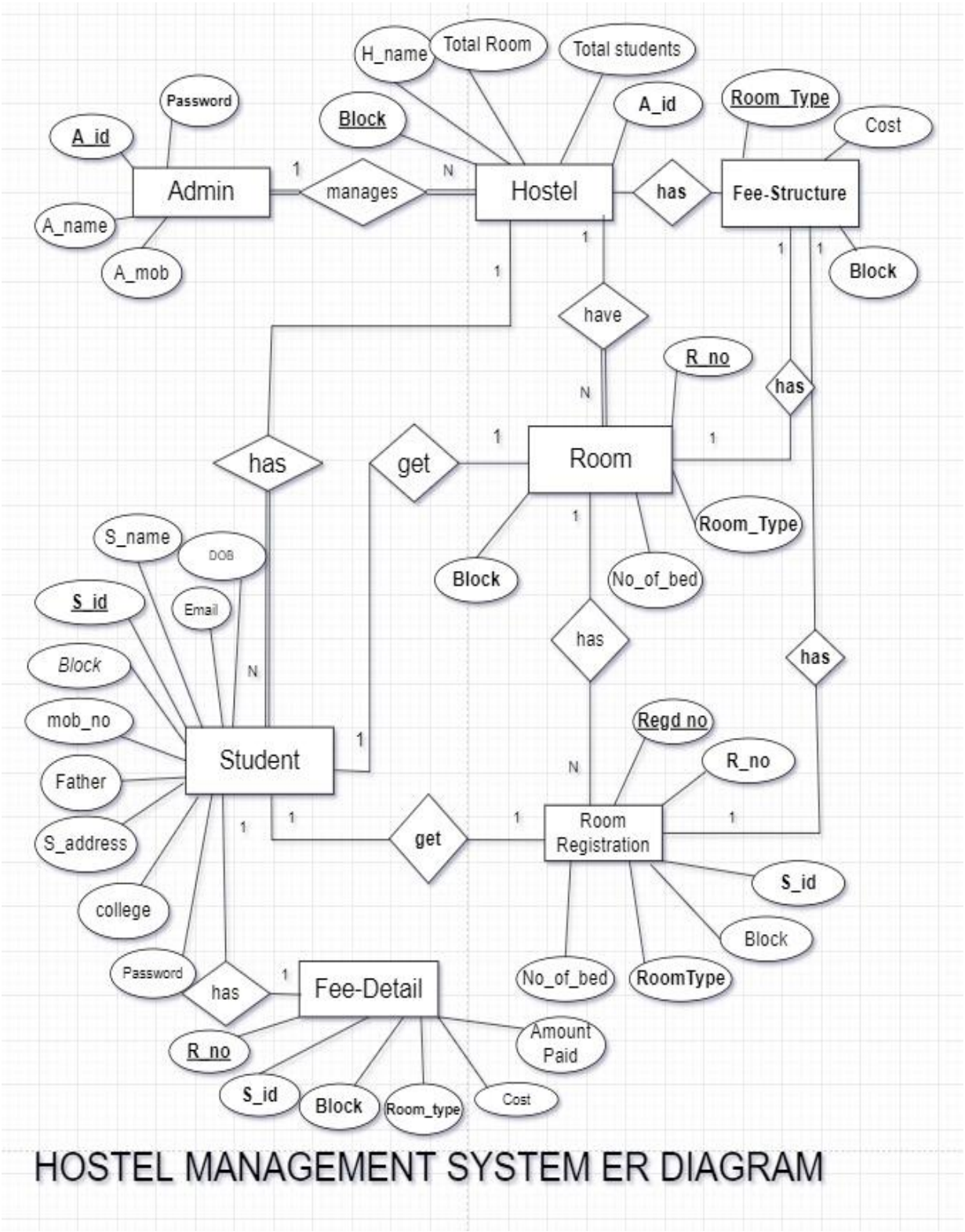
Processor:- Intel i3/i5/i7

RAM:- 8GB/8GB/16GB

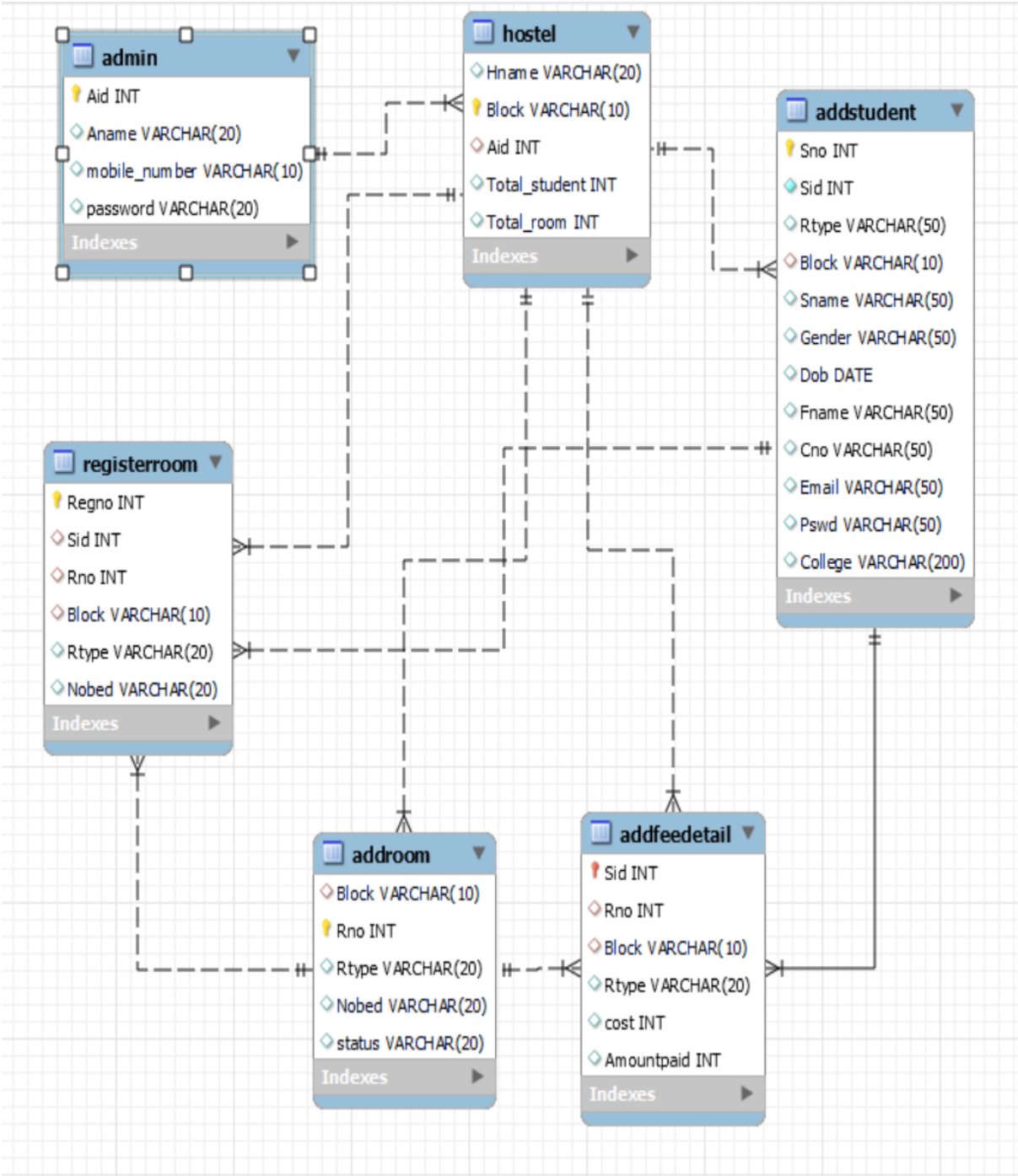
Hard Disk:- 4GB

3. DESIGN

3.1 ER DIAGRAM



3.2 DATABASE SCHEMA



4. IMPLEMENTATION

4.1 SAMPLE SOURCE CODE

Home.java

```
package hms;
import javax.servlet.RequestDispatcher;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import javax.servlet.ServletContext;
import javax.servlet.http.HttpSession;

public class Home extends HttpServlet {

   protected void doPost(HttpServletRequest request, HttpServletResponse response)
         throws ServletException, IOException {
      response.setContentType("text/html");
      PrintWriter out = response.getWriter();
      String n = request.getParameter("uid");
      String p = request.getParameter("psw");
      try {
         Class.forName("com.mysql.cj.jdbc.Driver");
         out.println("Drivers are loaded");
         Connection con = DriverManager.getConnection("jdbc:mysql://localhost/idp", "root",
"root");
         out.println("Connection is created");
         Statement stmt = con.createStatement();

         String z = request.getParameter("category");
```

```
if (z.equals("Student")) {
    ResultSet rs = stmt.executeQuery("select * from AddStudent");
    int l = 1;
    while (rs.next()) {
        if (rs.getString(2).equals(n) && rs.getString(11).equals(p)) {
            l = 0;
            break;
        }
    }
    if (l == 0) {
        HttpSession sc = request.getSession();
        sc.setAttribute("Sid", n);
        RequestDispatcher rd = request.getRequestDispatcher("studentHome.html");
        rd.forward(request, response);
    } else {
        out.print("Sorry username or password error");
        RequestDispatcher rd = request.getRequestDispatcher("index.html");
        rd.include(request, response);
    }
} else {
    ResultSet rs1 = stmt.executeQuery("select * from Admin");
    int l2 = 1;
    while (rs1.next()) {
        if (rs1.getString(1).equals(n) && rs1.getString(4).equals(p)) {
            l2 = 0;
            break;
        }
    }
    if (l2 == 0) {
        HttpSession sc = request.getSession();
        sc.setAttribute("Aid", n);
        RequestDispatcher rd = request.getRequestDispatcher("adminHome.html");
        rd.forward(request, response);
    } else {
```

```
                out.print("Sorry username or password error");
                RequestDispatcher rd = request.getRequestDispatcher("index.html");
                rd.include(request, response);
            }
        }
        con.close();
    } catch (ClassNotFoundException | SQLException e) {
        out.println(e);
    }
  }
}
```

Studenthome.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.sql.*" %>
<!DOCTYPE html>
<html>
  <head>
    <title>Teacher List</title>
    <style>
      *{
        background: rgb(215, 215, 220);
      }
      .ll{
        margin-left: auto;
        margin-right: auto;
        width:70%;
      }
      td{
        color:rgb(170, 32, 112);
      }
      .data{
        text-align: center;
      }
```

```
        .tab{
            position: absolute;
            left: 12%;
            width: 80%;
        }
        .sf{
            display: flex;
            justify-content: center;
        }
    </style>
</head>
<body>
    <h1 class="sf">Student List</h1>
    <div style="display: flex;">
        <br><br>
        <%! ResultSet rs;%>
        <table border="2" class="tab" width="70%">
            <thead>
                <tr>
                    <th>Serial Number</th>
                    <th>Student ID</th>
                    <th>Student Name</th>
                    <th>Room Type</th>
                    <th>Gender</th>
                    <th>Contact Number</th>
                    <th>Email</th>
                    <th>Father's Name</th>
                </tr>
            </thead>
            <%
                //          int c=1;
                try {
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    String url = "jdbc:mysql://localhost:3306/idp";
```

```
                String username = "root";
                String password = "root";
                Connection con = DriverManager.getConnection(url, username, password);
                Statement st = con.createStatement();
                rs = st.executeQuery("Select * from addStudent");
                while (rs.next()) {
            %>
            <tr class="data">
               <td><%=rs.getString(1)%></td>
               <td><%= rs.getString(2)%></td>
               <td><%= rs.getString(5)%></td>
               <td><%= rs.getString(3)%></td>
               <td><%= rs.getString(6)%></td>
               <td><%= rs.getString(9)%></td>
               <td><%= rs.getString(10)%></td>
               <td><%= rs.getString(8)%></td>
            </tr>
            <%
                }
               } catch (Exception e) {
                System.out.println(e);
               }
            %>
         </table>
      </div>
   </body>
</html>
```

4.2 SAMPLE DATABASE

create database IDP;

drop database idp;

use idp;

create table Admin(Aid int primary key,Aname varchar(20),mobile_number varchar(10),password varchar(20));

insert into Admin values(1001,"Krishna",9098765435,"asdf");

select * from Admin;

drop table admin;

create table Hostel(Hname varchar(20),Block varchar(10) primary key,Aid int,foreign key(Aid) references Admin(Aid),Total_student int,Total_room int);

insert into hostel values("kc","D-Block",1001,500,200);

insert into hostel values("kc","N-Block",1001,500,200);

select * from Hostel;

drop table hostel;

create table addstudent(Sno int auto_increment primary key,Sid int unique not null,Rtype varchar(50),Block varchar(10),Sname varchar(50),Gender varchar(50),Dob date,Fname varchar(50),Cno varchar(50),Email varchar(50),Pswd varchar(50),College varchar(200),foreign key(Block) references Hostel(Block));

insert into Addstudent values(1,4401,"AC","D-Block","Manav","Male","2002-02-02","Manoj Singh",8578123654,"manav@gmail.com","qwer","Vignan University");

insert into Addstudent values(2,4402,"AC","D-Block","Anand Patel","Male","2002-12-17","Mantoo Singh",7412369850,"anand@gmail.com","qwer","Vignan University");

insert into Addstudent values(3,4403,"AC","D-Block","Nitish Singh","Male","2001-07-22","Uday Pratap Singh",6206642539,"nitish@gmail.com","qwer","Vignan University");

insert into Addstudent values(4,4404,"AC","D-Block","Suresh Kumar","Male","2002-05-01","Mahesh Singh",7895462103,"sureshd@gmail.com","qwer","Vignan University");

insert into Addstudent values(5,4405,"AC","D-Block","Sonu Kumar","Male","2000-04-22","Amar Singh",8578123654,"sonu@gmail.com","qwer","Vignan University");

insert into Addstudent values(6,4301,"Non AC","D-Block","Suraj Patel","Male","2002-09-12","AniruddhSingh",6206626296,"surajpatel.cse@gmail.com","qwer","Vignan University");

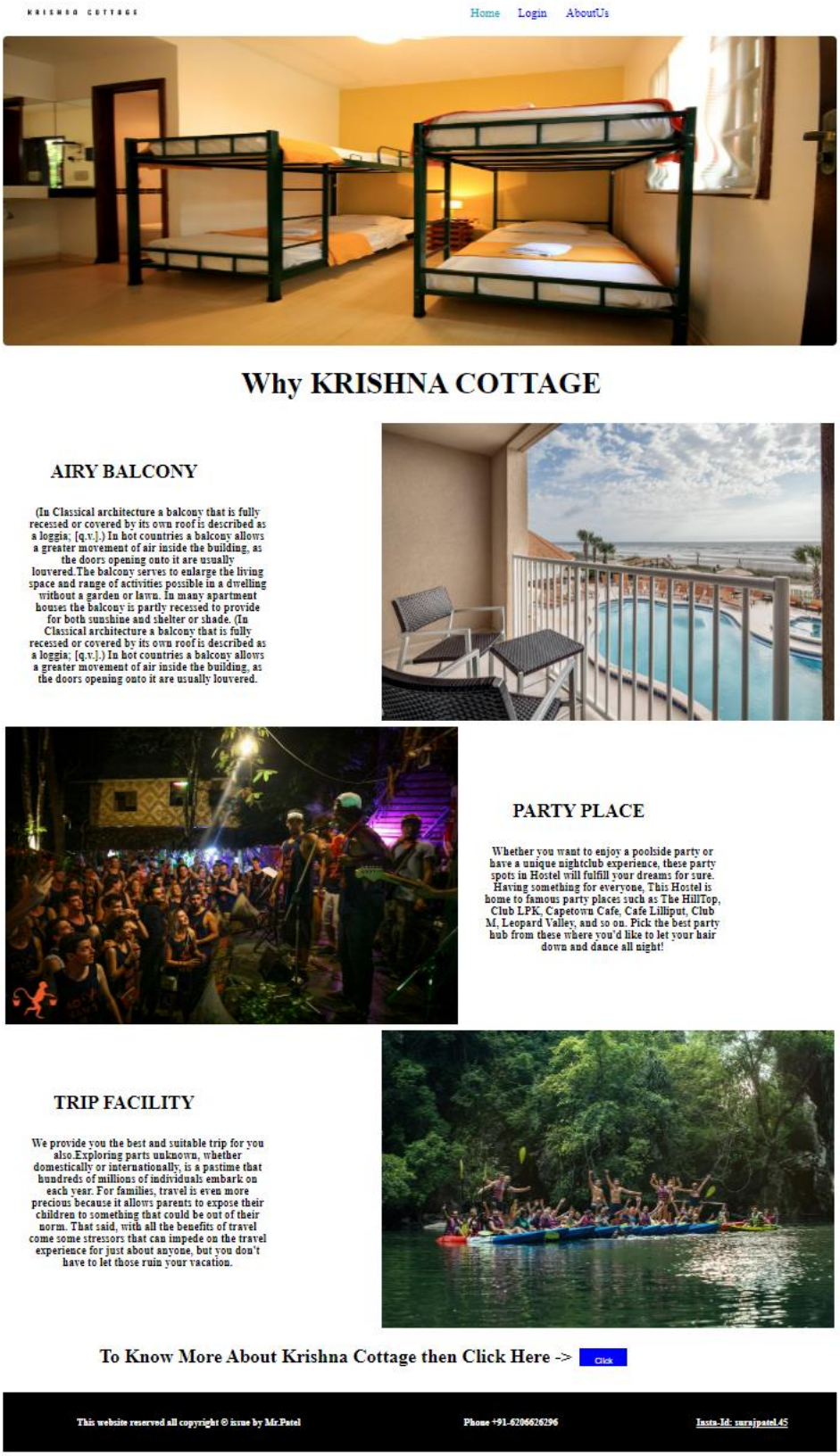
```
insert into Addstudent values(7,4302,"Non AC","D-Block","Anuj Patel","Male","2003-12-7","Mantoo Singh",7412469850,"anuj@gmail.com","qwer","Vignan University");
insert into Addstudent values(8,4303,"Non AC","D-Block","Nitesh Singh","Male","2002-06-22","Pradeep Singh",9856642539,"nitesh@gmail.com","qwer","Vignan University");
insert into Addstudent values(9,4304,"Non AC","D-Block","Sunny Kumar","Male","2002-05-11","Monu Singh",9875462103,"sunny@gmail.com","qwer","Vignan University");
insert into Addstudent values(10,4305,"Non AC","D-Block","Sudhir Kumar","Male","2000-10-22","Ramesh Singh",7458123654,"sudhir@gmail.com","qwer","Vignan University");
drop table addstudent;
select * from Addstudent;
delete from addstudent where Sid=4304;
drop table addstudent;
create table Addroom(Block varchar(10),Rno int primary key,Rtype varchar(20),Nobed varchar(20),status varchar(20),foreign key(Block) references Hostel(Block));
insert into addroom values ("D-Block",101,"AC",4,"Enabled");
insert into addroom values ("D-Block",102,"AC",4,"Enabled");
insert into addroom values ("D-Block",103,"AC",4,"Enabled");
insert into addroom values ("D-Block",104,"AC",4,"Enabled");
insert into addroom values ("D-Block",105,"AC",4,"Enabled");
insert into addroom values ("D-Block",1,"Non AC",4,"Enabled");
insert into addroom values ("D-Block",2,"Non AC",4,"Enabled");
insert into addroom values ("D-Block",3,"Non AC",4,"Enabled");
insert into addroom values ("D-Block",4,"Non AC",4,"Enabled");
insert into addroom values ("D-Block",5,"Non AC",4,"Enabled");
select * from Addroom;
delete from addroom where Rno=1;
drop table addroom;
create table Registerroom(Regno int auto_increment primary key,Sid int,
Rno int,Block varchar(10),Rtype varchar(20),
Nobed varchar(20),foreign key(Rno) references Addroom(Rno),
foreign key(Sid) references Addstudent(Sid),
foreign key(Block) references Hostel(Block));
insert into Registerroom values(1,4401,101,"D-Block","AC",4);
insert into Registerroom values(2,4402,101,"D-Block","AC",4);
```

```
insert into Registerroom values(3,4403,101,"D-Block","AC",4);
insert into Registerroom values(4,4404,101,"D-Block","AC",4);
insert into Registerroom values(5,4405,102,"D-Block","AC",4);
insert into Registerroom values(6,4301,1,"D-Block","Non AC",3);
insert into Registerroom values(7,4302,1,"D-Block","Non AC",3);
insert into Registerroom values(8,4303,1,"D-Block","Non AC",3);
insert into Registerroom values(9,4304,2,"D-Block","Non AC",3);
insert into Registerroom values(10,4305,2,"D-Block","Non AC",3);
select * from registerroom;
delete from registerroom where Regno=6;
drop table registerroom;
create table addfeedetail(Sid int primary key,foreign key(sid) references Addstudent(sid),
Rno int,foreign key(Rno) references Addroom(Rno),
Block varchar(10),foreign key(Block) references Hostel(Block),
Rtype varchar(20),cost int,Amountpaid int);
insert into addfeedetail values(4401,1,"D-Block","AC",100000,50000);
insert into addfeedetail values(4402,1,"D-Block","AC",100000,45000);
insert into addfeedetail values(4403,1,"D-Block","AC",100000,80000);
insert into addfeedetail values(4404,1,"D-Block","AC",100000,60000);
insert into addfeedetail values(4405,2,"D-Block","AC",100000,50000);
insert into addfeedetail values(4301,1,"D-Block","Non AC",80000,30000);
insert into addfeedetail values(4302,1,"D-Block","Non AC",80000,55000);
insert into addfeedetail values(4303,1,"D-Block","Non AC",80000,45000);
insert into addfeedetail values(4304,2,"D-Block","Non AC",80000,50000);
insert into addfeedetail values(4305,2,"D-Block","Non AC",80000,50000);
select * from addfeedetail;
drop table addfeedetail;
create table feestructure(rtype varchar(20),totalfee int);
insert into feestructure values("AC",100000);
insert into feestructure values("NON AC",80000);
```

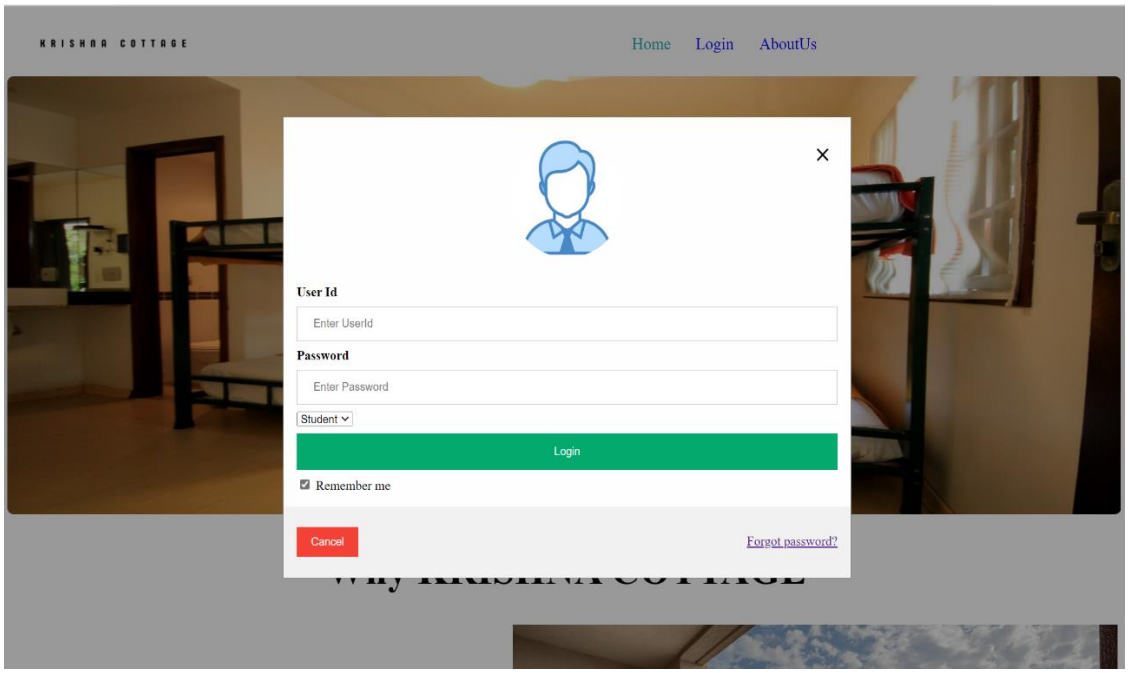
5 RESULTS

5.1 SCREENSHOT

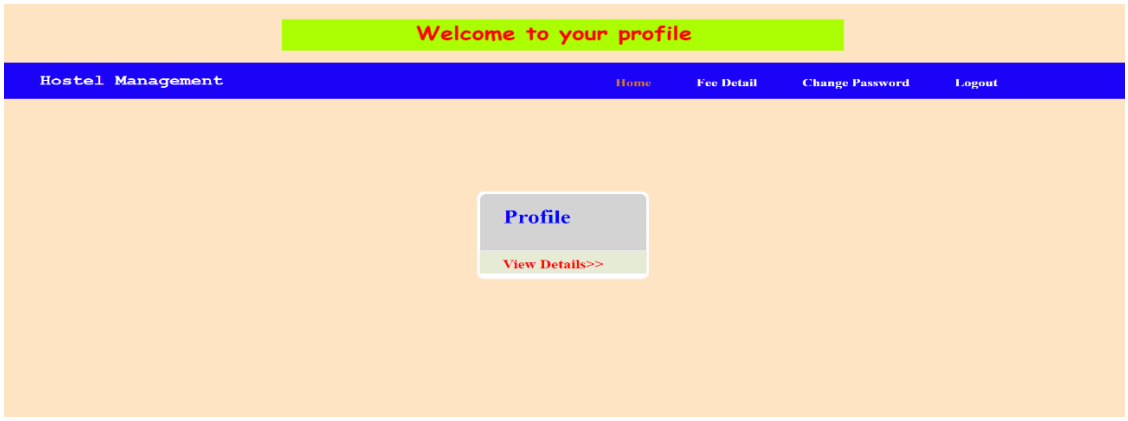
Home page



Login page



Student Home



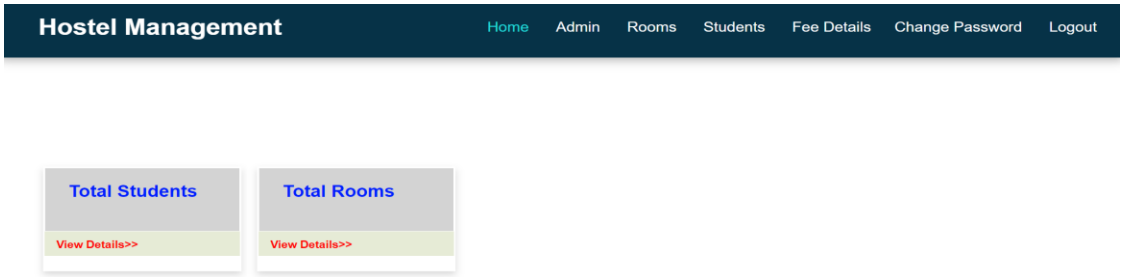
Student Profile

Profile	
Student Id:	4401
Name:	Manav
Gender:	Male
Contact Number:	8578123654
Email Id:	manav@gmail.com
Room Type:	AC
College:	Vignan University

Personal Fee Detail

Fee Detail	
Student Id:	4401
Room Number:	1
Block:	D-Block
Room Type:	AC
Total Fees:	100000
Amount Paid:	50000

Admin Home



Admin Profile

Profile	
Admin Id:	1001
Name:	Krishna
Mobile Number:	9098765435
password:	asdf

Add Room

ADD ROOM	
Block:	D-Block
Room No:	
Room Type:	AC
No of Bed:	4
status:	Enabled
ADD	

Room List

Room List

Serial Number	Block	Room Number	Room Type	No. of Bed	Status
1	D-Block	1	Non AC	4	Enabled
2	D-Block	2	Non AC	4	Enabled
3	D-Block	3	Non AC	4	Enabled
4	D-Block	4	Non AC	4	Enabled
5	D-Block	5	Non AC	4	Enabled
6	D-Block	101	AC	4	Enabled
7	D-Block	102	AC	4	Enabled
8	D-Block	103	AC	4	Enabled
9	D-Block	104	AC	4	Enabled
10	D-Block	105	AC	4	Enabled

Register Room

ROOM REGISTRATION

Student Id:	
Room No:	
Block:	D-Block
Room Type:	AC
No of Bed:	4

ADD

Registered Room List

Registered Room List

Serial Number	Student Id	Room Number	Block	Room Type	No. of Bed
1	4401	101	D-Block	AC	4
2	4402	101	D-Block	AC	4
3	4403	101	D-Block	AC	4
4	4404	101	D-Block	AC	4
5	4405	102	D-Block	AC	4
6	4301	1	D-Block	Non AC	3
7	4302	1	D-Block	Non AC	3
8	4303	1	D-Block	Non AC	3
9	4304	2	D-Block	Non AC	3
10	4305	2	D-Block	Non AC	3

Add Student

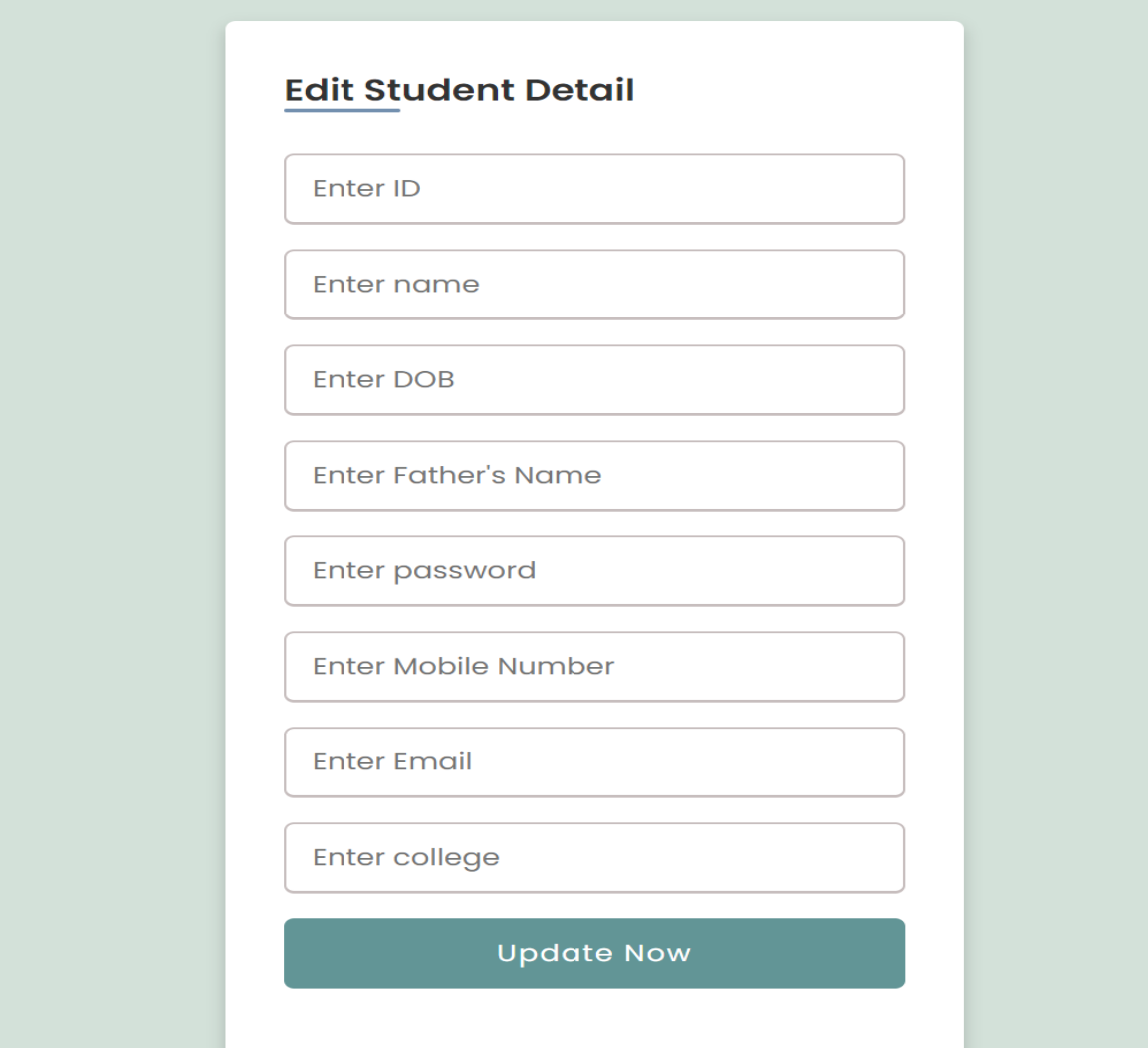
ADD STUDENT	
Student Id:	
Room Type:	Non AC
Block:	D-Block
Student Name:	
Gender:	Male
DOB:	dd-mm-yyyy
Father Name:	
Contact No:	
Email Id:	
Password:	
College Detail:	
ADD	

Student List

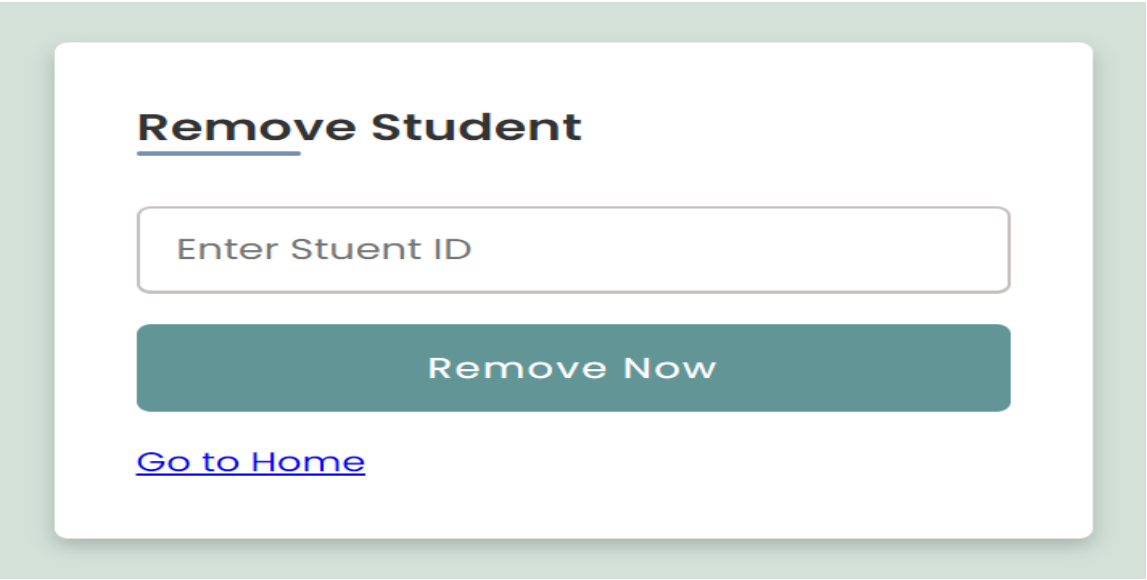
Student List

Serial Number	Student ID	Student Name	Room Type	Gender	Contact Number	Email	Father's Name
1	4401	Manav	AC	Male	8578123654	manav@gmail.com	Manoj Singh
2	4402	Anand Patel	AC	Male	7412369850	anand@gmail.com	Mantoo Singh
3	4403	Nitish Singh	AC	Male	6206642539	nitish@gmail.com	Uday Pratap Singh
4	4404	Suresh Kumar	AC	Male	7895462103	sureshd@gmail.com	Mahesh Singh
5	4405	Sonu Kumar	AC	Male	8578123654	sonu@gmail.com	Amar Singh
6	4301	Suraj Patel	Non AC	Male	6206626296	surajpatel.cse@gmail.com	Aniruddh Singh
7	4302	Anuj Patel	Non AC	Male	7412469850	anuj@gmail.com	Mantoo Singh
8	4303	Nitesh Singh	Non AC	Male	9856642539	nitesh@gmail.com	Pradeep Singh
9	4304	Sunny Kumar	Non AC	Male	9875462103	sunny@gmail.com	Monu Singh
10	4305	Sudhir Kumar	Non AC	Male	7458123654	sudhir@gmail.com	Ramesh Singh

Edit Student



Remove Student



Fee Structure

Fee Structure Table

Room Type	Total Fee
AC	100000
NON AC	80000

Add Student Fee

Add Student Fee

Student Id:	
Room No:	
Block:	D-Block
Room Type:	AC
Cost:	100000
Amount paid:	

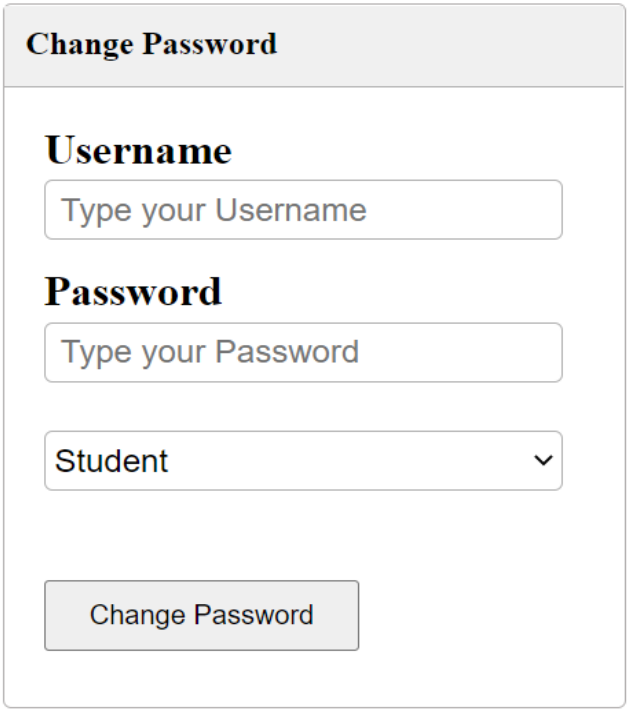
ADD

Fee Detail Table

Fee Detail Table

STudent Id	Room Number	Block	Room Type	Total Fee	Fee Paid
4301	1	D-Block	Non AC	80000	30000
4302	1	D-Block	Non AC	80000	55000
4303	1	D-Block	Non AC	80000	45000
4304	2	D-Block	Non AC	80000	50000
4305	2	D-Block	Non AC	80000	50000
4401	1	D-Block	AC	100000	50000
4402	1	D-Block	AC	100000	45000
4403	1	D-Block	AC	100000	80000
4404	1	D-Block	AC	100000	60000
4405	2	D-Block	AC	100000	50000

Change Password



6. CONCLUSION

Hostel Management System is a Customize and user-friendly software for Hostel. It has been designed to automate, manage and look after the overall processing of even very large hostel. It is capable of managing Enquiry details, Student Details, Payment Details etc. Hostel Management System is a Customize and user-friendly software for Hostel which provide hostel information, hostel room information, hostel accounts information. Hostel Management Software System is offering a maximum of stability, cost-effectiveness and usability. It provides the most flexible and adaptable standards management system software solutions for hostel.

7 REFERENCES

- W3 Schools- https://www.w3schools.com/html/
- Geeksforgeeks- https://www.geeksforgeeks.org/introduction-to-jsp/
- Code With Harry- https://www.codewithharry.com/
- Telusko- https://www.youtube.com/watch?v=OuBUUkQfBYM&list=PLBwq8sRCSaReXs_OVPlBkY46ZfBhq2qwP&index=1
- Stackoverflow- https://stackoverflow.com/